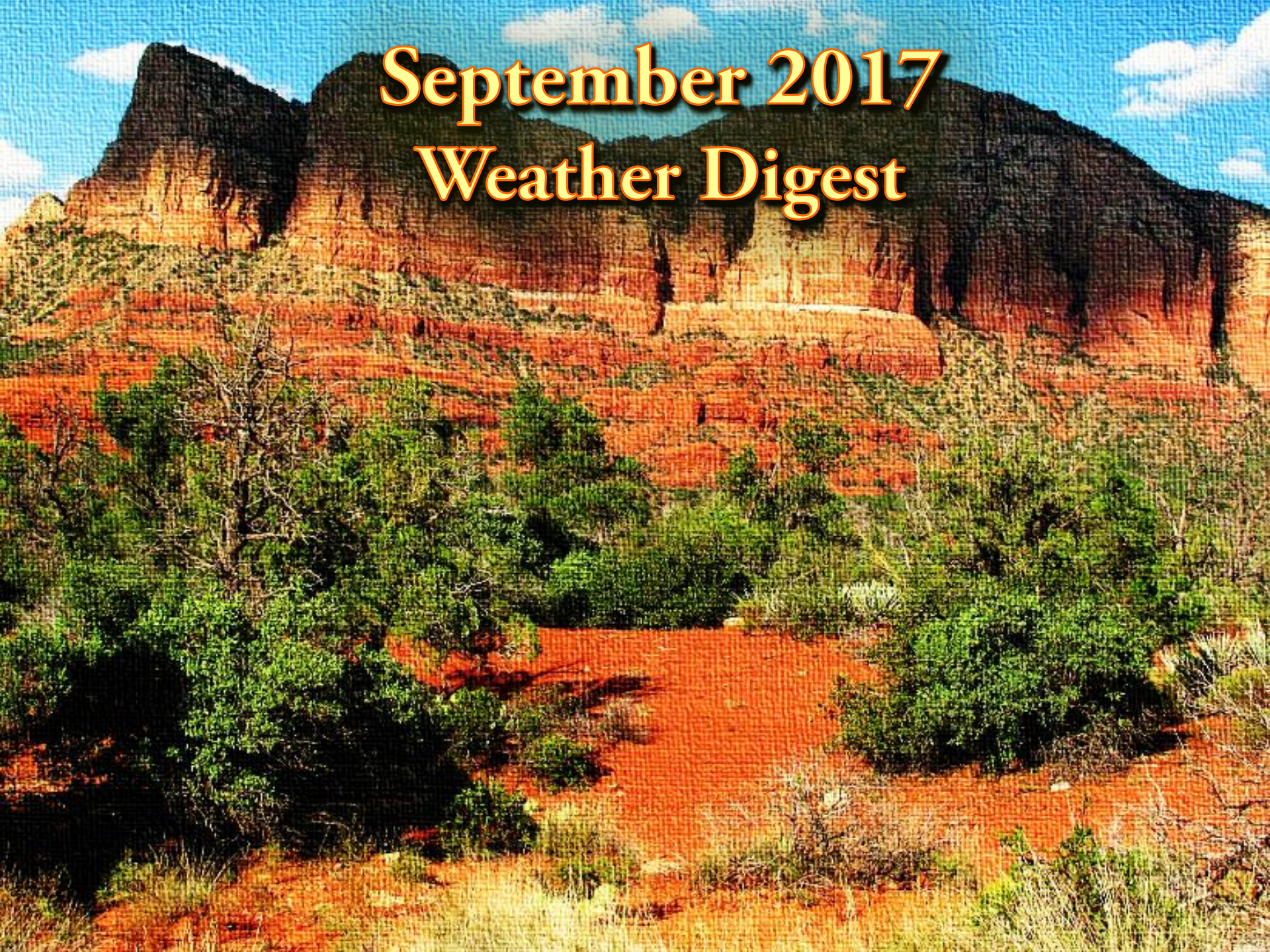


# September 2017 Weather Digest





# **September 2017 Weather Summary**

**September turned out to be quite extreme with weather this year. The month started out quite dry, continuing the pattern of late August when the monsoon basically shut down for the season. High pressure aloft over the Great Basin, combined with numerous wildfires from California up to Washington and over to Montana, distributed smoke across much of the western U.S. Though the bulk of the smoke drifted east over the Great Plains, a fair amount of smoke drifted south across the Borderland, creating some minor health problems for people sensitive to smoke.**

**The upper high dominating the western U.S. finally dissipated about the 10<sup>th</sup>, and was replaced by a trough of low pressure over the next week. This kept a dry southwest flow over the area, resulting in very warm temperatures, peaking on the 13<sup>th</sup> and 14<sup>th</sup>, with many daily high temperature records set.**

**Finally toward the end of the month, an upper trough became stationary over the Great Basin, and combined with high pressure over the Gulf of Mexico, began drawing up abundant tropical moisture. This resulted in widespread showers and thunderstorms over much of southern New Mexico and west Texas. Flooding was reported in many places on the 28<sup>th</sup> through the 30<sup>th</sup>. Unfortunately, two fatalities were reported in Silver City on the 30<sup>th</sup>, as flood waters washed an automobile off the road.**

# September 2017 Weather Summary (cont'd)

The last four days of the month produced almost all the rain for the entire month in many areas. However the area as a whole was drier than normal. Only a few spots such as the Rio Grande Valley from El Paso downstream, and much of Sierra County, received above normal rainfall, while the rest of the area was below normal.

Temperatures were above normal for the month, mostly due to the fact the first two-thirds of the month were dry with very little humidity. At El Paso, a temperature of 100 degrees was recorded on the 13<sup>th</sup>, only 3 days from the record for latest last occurrence of 100 degrees.

Looking ahead to October, the ENSO analysis shows a weak La Nina beginning to form. This generally means drier and warmer than normal. The caveat is that this La Nina, at this time, is forecast to be weak. Weak El Nino/La Nina patterns show less correlation to climate normal. The CPC forecast is for drier and warmer than normal conditions for October. The normal high for El Paso on October 1 is 83, while the month ends with a normal high of 73 degrees. The normal precipitation at El Paso Airport for the month is .61 inches. Up in the mountains, Cloudcroft averages 2.15 inches of precipitation. October also is the transition month from warm to cool for many places. Most places, other than the Rio Grande Valley, experience their first freeze. Snow usually falls for the first time for many places above 6000 ft sometime during the month.

## Monsoon statistics for El Paso (1879-2017)

Top 10 Wettest Monsoon			Top 10 Driest Monsoon		
1) <b>15.28"/2006</b>	6) 9.88"/1974		1) <b>0.23"/1994</b>	6) 1.66"/1953	
2) 12.78"/1881	7) 9.68"/1984		2) 0.82"/1891	7) 1.78"/2003	
3) 11.94"/1880	8) 9.40"/1990		3) 0.96"/1934	8) 1.85"/1969	
4) 10.08"/1958	9) 8.95"/2008		4) 1.33"/1892	9) 2.19"/1963	
5) 10.04"/1897	10) 8.33"/1988		5) 1.46"/1945	10) 2.28"/1937	
YEAR	Month by month rainfall				
	June (15-30)	July	August	September	Total
<b>Normal</b>	<b>0.51"</b>	<b>1.66"</b>	<b>1.61"</b>	<b>1.36"</b>	<b>5.14"</b>
2017	1.00"	3.37"	2.01"	1.16"	7.54"

19<sup>th</sup> WETTEST MONSOON



# 2017 Monsoon Rain Tallies

Weather Forecast Office  
El Paso, TX  
October 2, 2017 7:54 PM



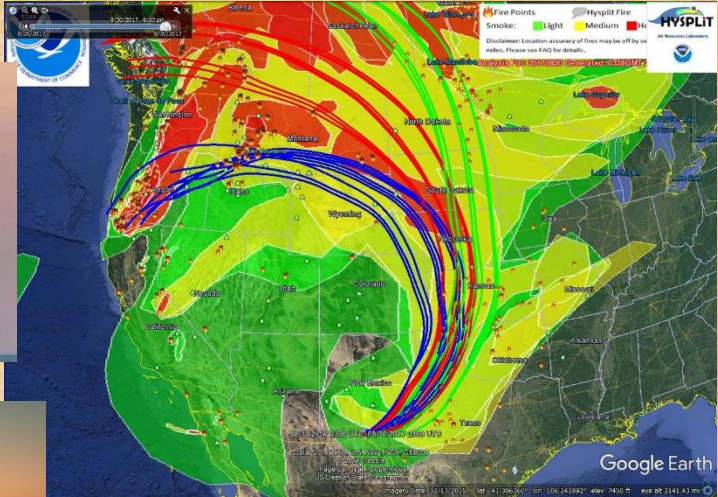
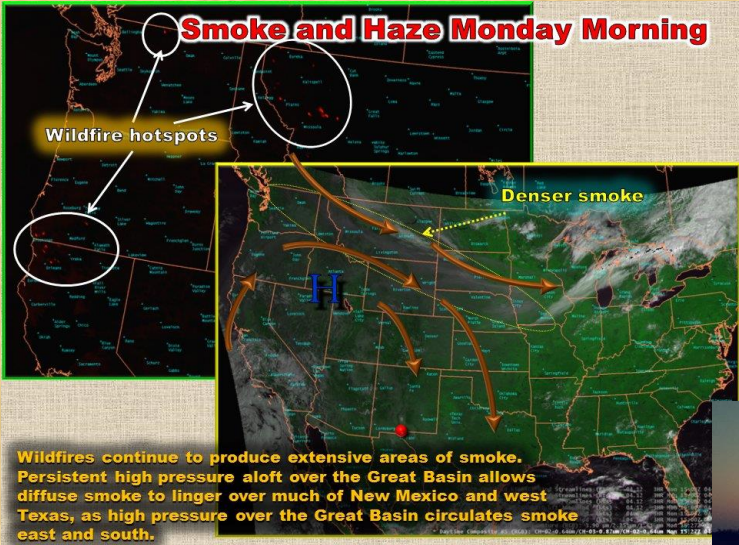
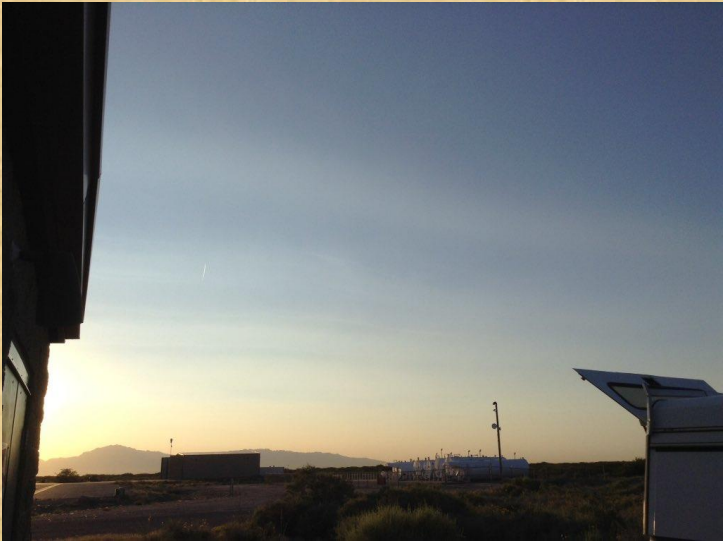
*Rainfall numbers  
for the period  
Jun15th -Sep30th  
(Monsoon Season)*

	<b>Actual 2017 Monsoon Rainfall</b>	<b>Normal Monsoon Season Rainfall</b>	<b>Percent of Normal</b>
<b>El Paso</b>	<b>7.54"</b>	<b>5.70"</b>	<b>132%</b>
<b>Las Cruces</b>	<b>5.17"</b>	<b>5.53"</b>	<b>93%</b>
<b>Deming</b>	<b>5.85"</b>	<b>6.38"</b>	<b>92%</b>
<b>Silver City</b>	<b>6.12"</b>	<b>9.45"</b>	<b>65%</b>
<b>T or C</b>	<b>5.08"</b>	<b>6.81"</b>	<b>75%</b>
<b>Alamogordo</b>	<b>2.72"</b>	<b>5.98"</b>	<b>45%</b>
	<i>6/15 – 9/30</i>	<i>6/15 – 9/30</i>	<i>6/15 – 9/30</i>

**NOTE "NORMAL" VALUES ARE FOR THE POR FROM 1981 TO 2010  
EXCEPT FOR SILVER CITY WHERE THE POR FROM 1961 TO 1990.**



# SEPTEMBER IN EL PASO STARTED OUT ON A SMOKEY NOTE SEP 1-6





**Canutillo Sep 28**



**Canutillo Sep 28**



**Canutillo Sep 28**



**Canutillo Sep 28**





**Canutillo Sep 28**



**Anthony Sep 27**



**El Paso Sep 28**



**El Paso Sep 28**





**El Paso Sep 28**



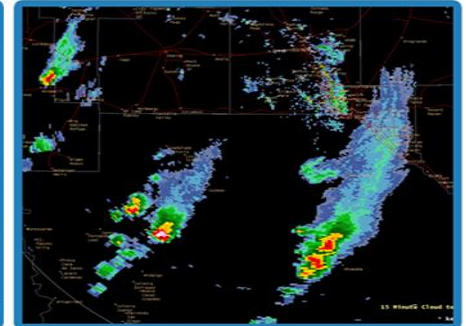
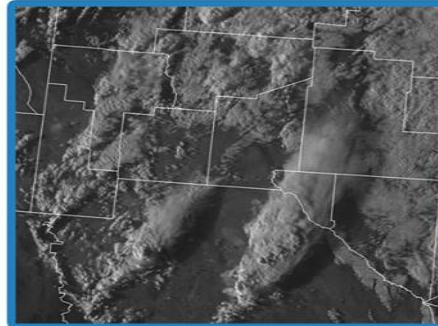
**El Paso Sep 26**



**El Paso Sep 27**



**Sep 27**





**Near Hachita Sep 28**



**Near Hachita Sep 28**



**Near Hachita Sep 28**







**19<sup>th</sup> Street Low Water Crossing**  
where car was swept away by  
flood waters. Car was jammed  
at Hwy 180 (257 ft down stream).  
Deceased found .80 mi. and 1.20  
mi. downstream.

**Friday night 9/30 ~ 2am**

**2 DIED AT NIGHT**

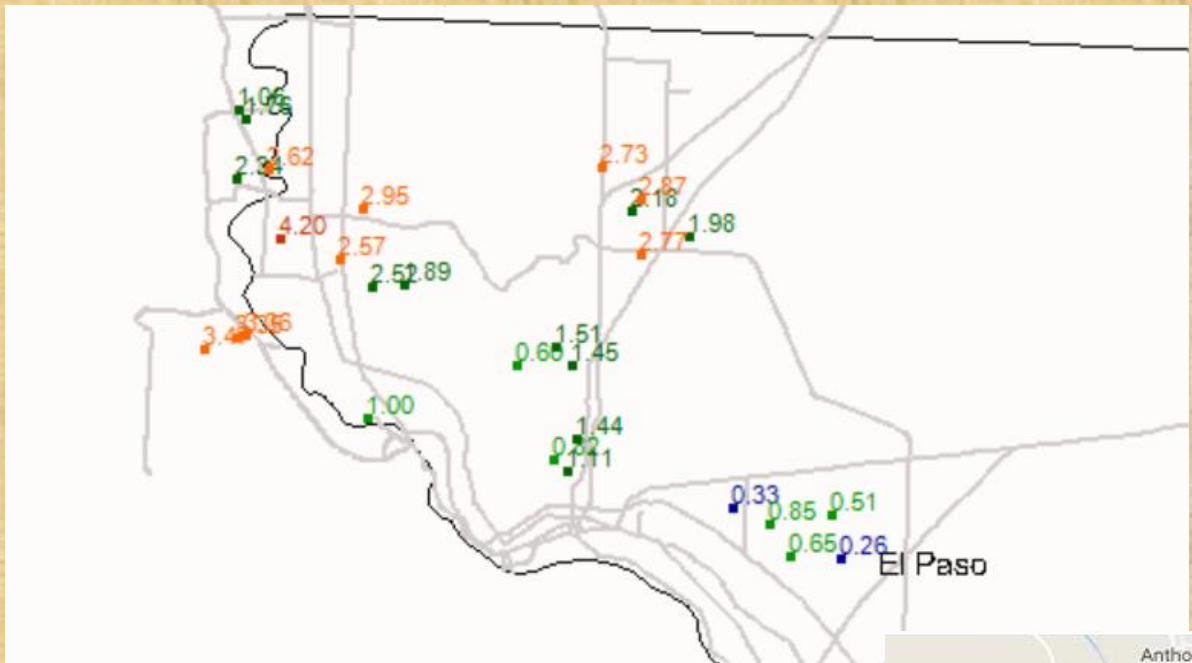
**FLOODING VERY DIFFICULT TO DETECT AT NIGHT**

**Peaceful when dry, Deadly when flooded**

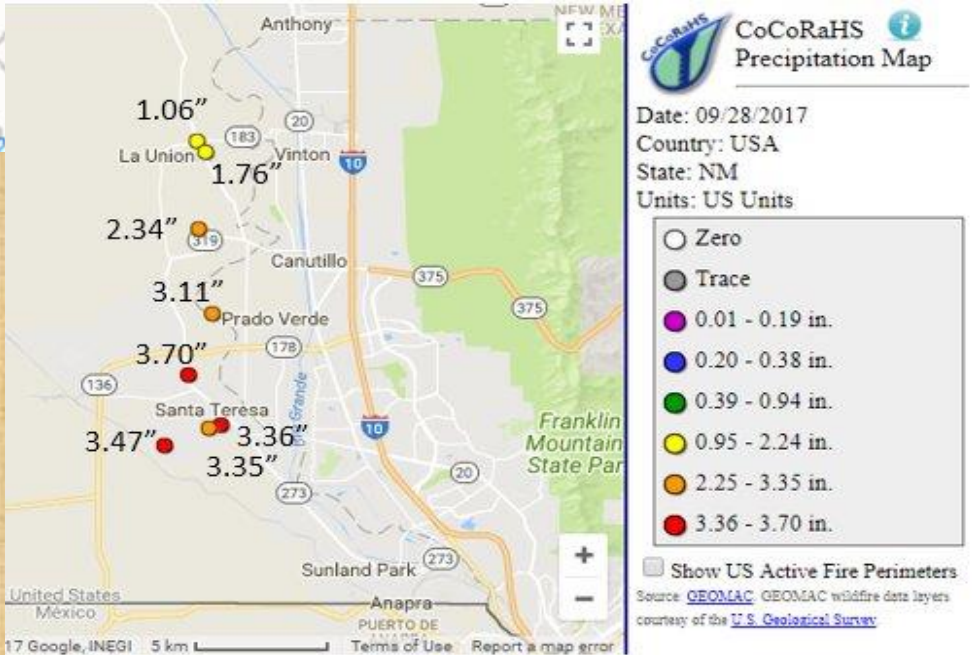




# WHEN IT RAINED IT POURED LATE SEP 27 INTO EARLY SEP 28



Rain Gauge





# **La Niña Watch in Effect**

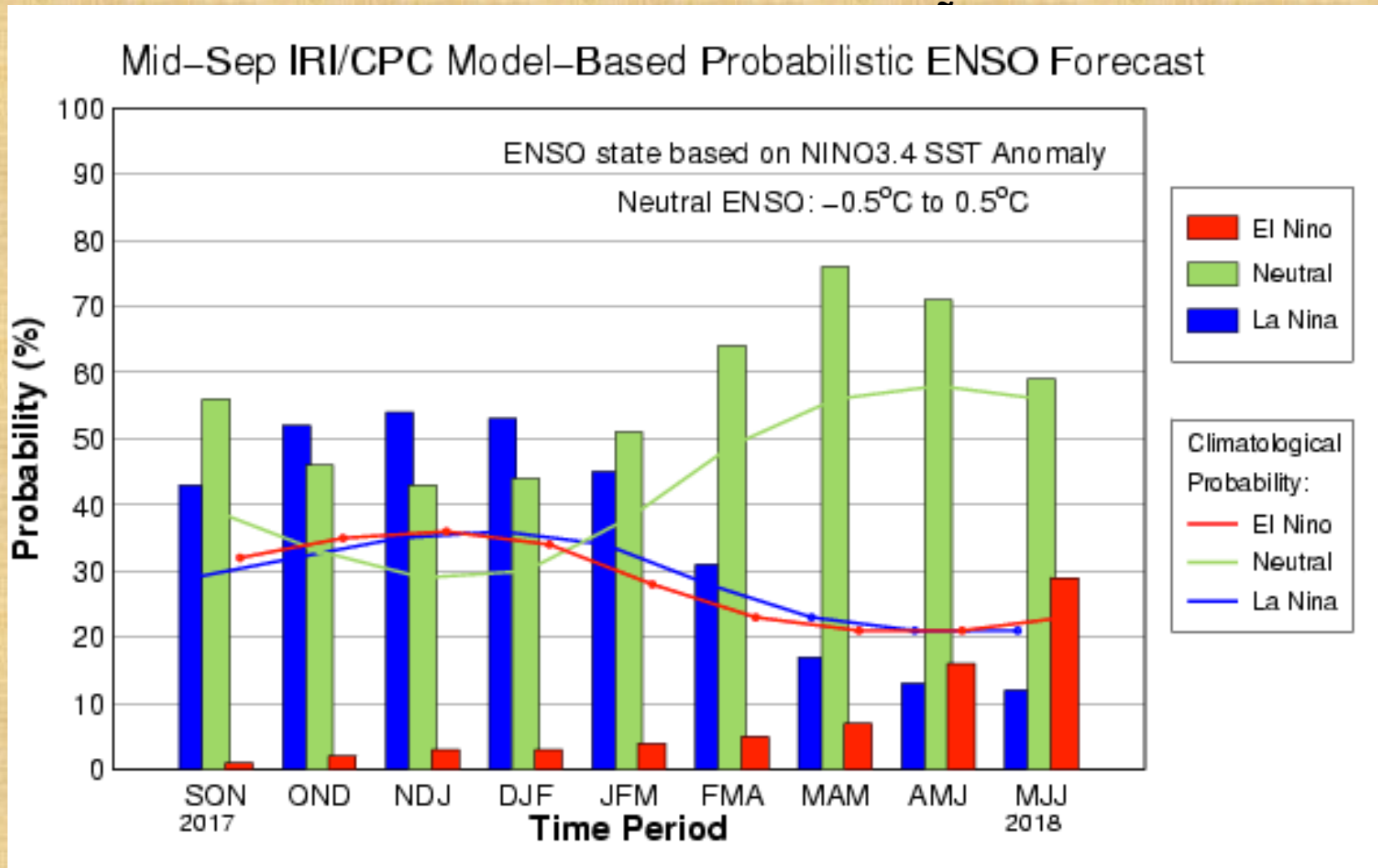
## **ENSO Alert System**

- **El Niño or La Niña Watch:** Issued when conditions are favorable for the development of El Niño or La Niña conditions in the next six months.
- **El Niño or La Niña Advisory:** Issued when El Niño or La Niña conditions are observed and expected to continue.



# ENSO Forecast from September into summer of 2018

ENSO IS NOW IN A WEAK LA NIÑA. SIGNAL POINTING TOWARD WEAK LA NIÑA THROUGH LATE WINTER; THEN BACK TO NEUTRAL

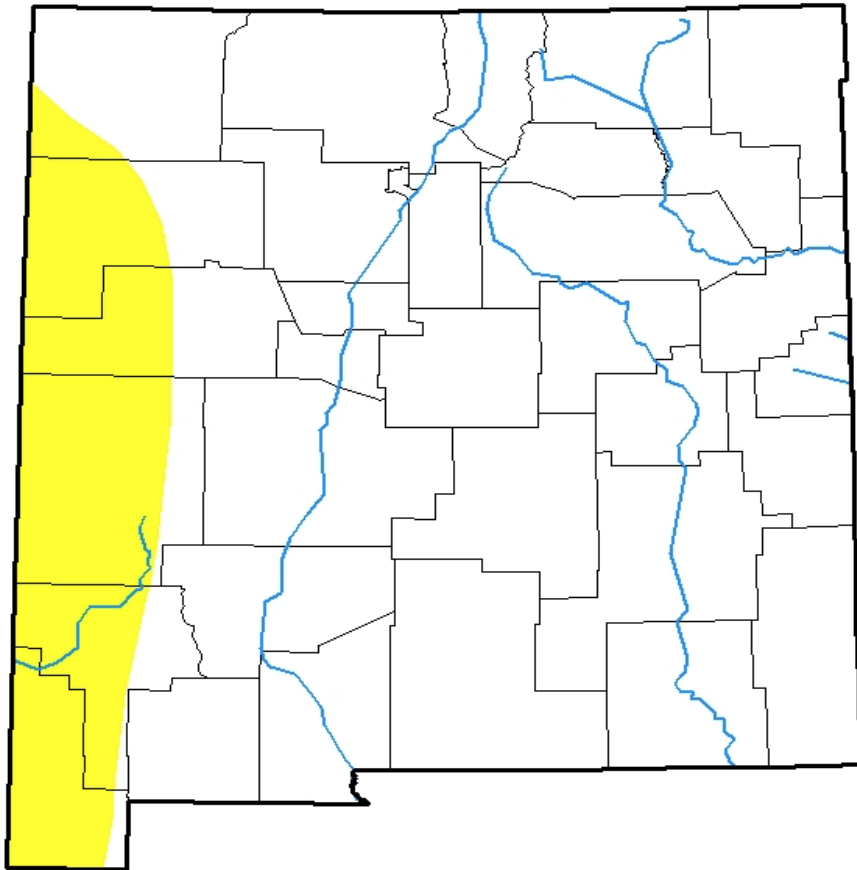




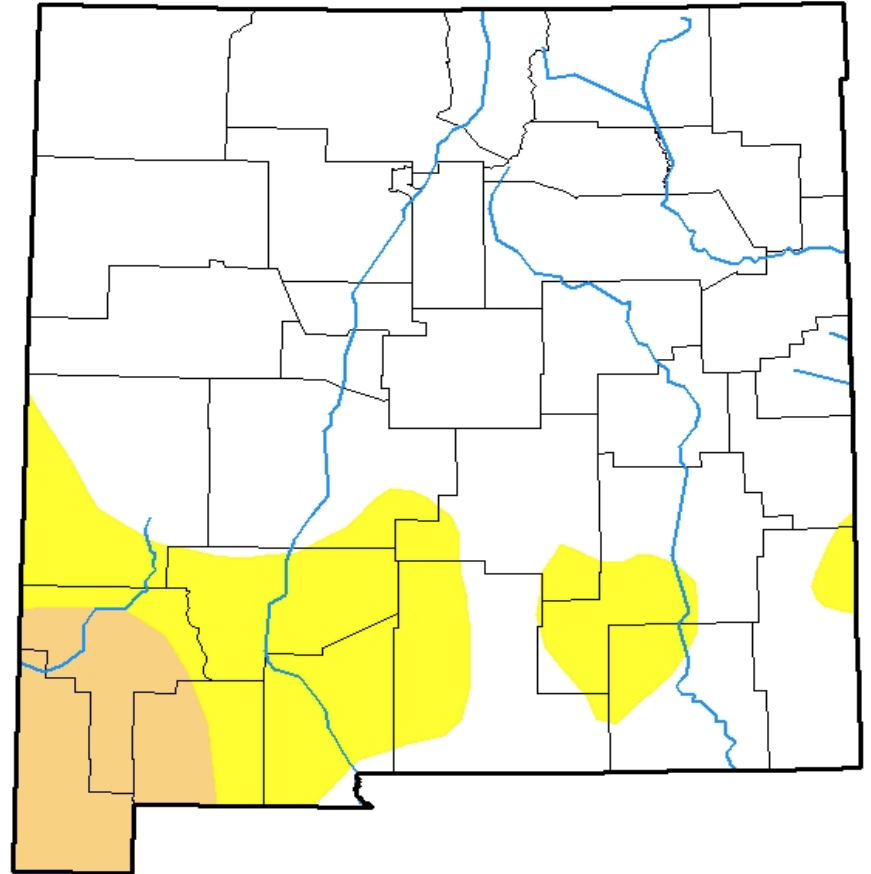
# Current drought conditions for New Mexico and 3 month change

- Abnormally Dry – D0
- Moderate Drought – D1
- Severe Drought – D2
- Extreme Drought – D3
- Exceptional – D4

**September 26, 2017**








**June 27, 2017**

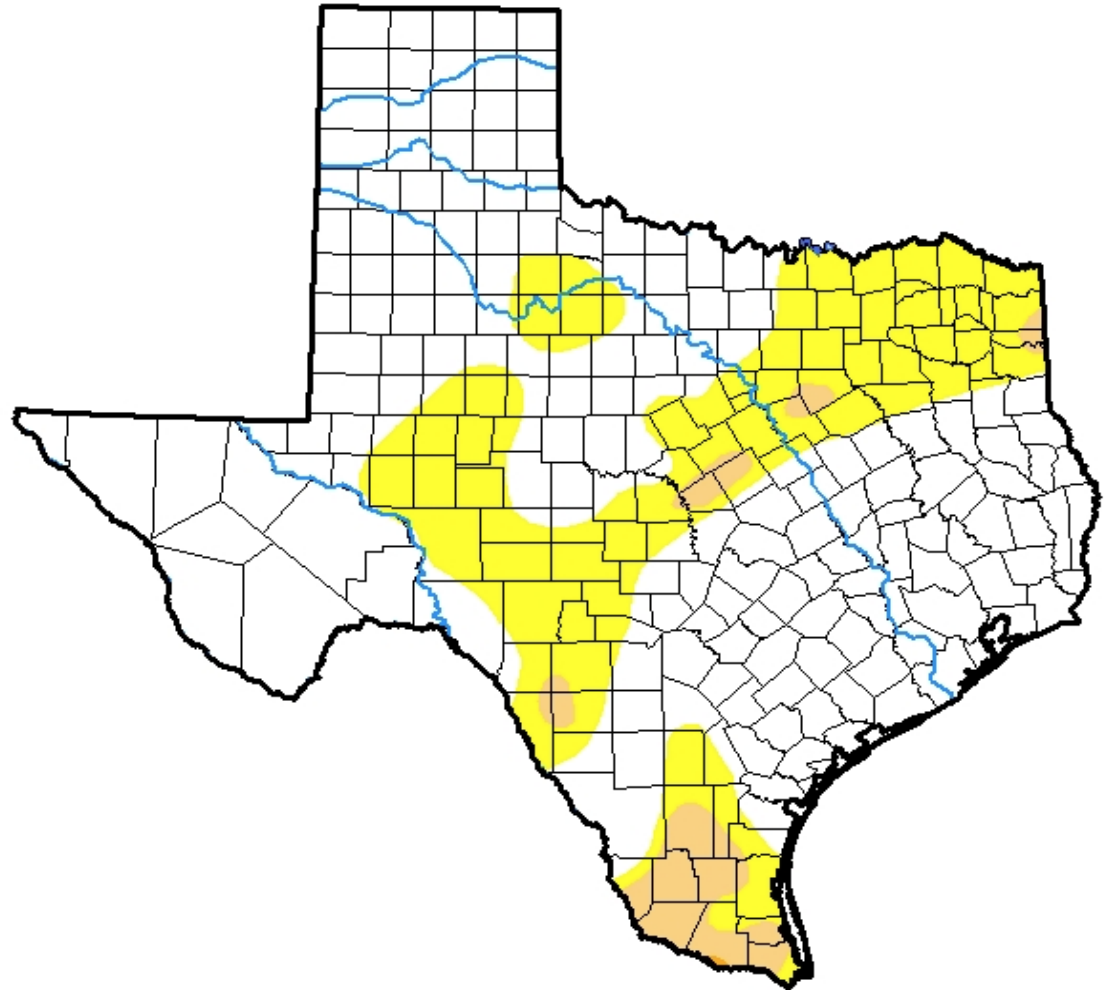




# Current drought conditions for Texas as of September 26, 2017

Intensity:

-  D0 - Abnormally Dry
-  D1 - Moderate Drought
-  D2 - Severe Drought
-  D3 - Extreme Drought
-  D4 - Exceptional Drought



**Build your own custom slider maps here at:**

**<http://droughtmonitor.unl.edu/MapsandData/ComparisonSlider.aspx>**

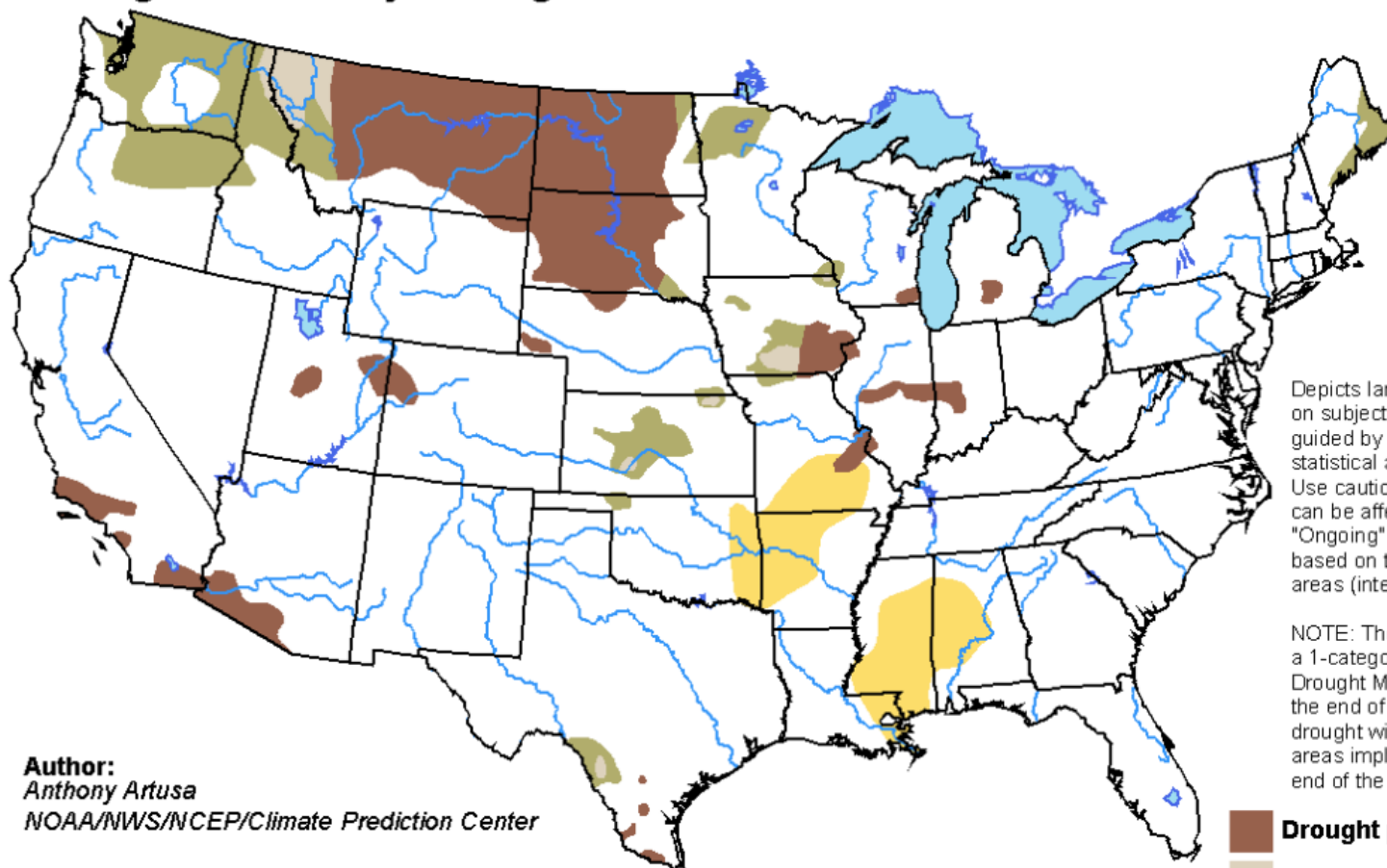


# U.S. Seasonal Drought Outlook

valid for September 21 - December 31, 2017

Drought Tendency During the Valid Period

Released September 21, 2017

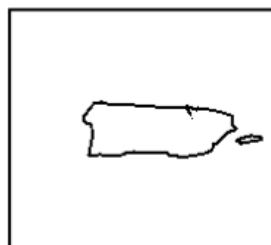


Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

**Author:**  
Anthony Artusa  
NOAA/NWS/NCEP/Climate Prediction Center

-  Drought persists
-  Drought remains but improves
-  Drought removal likely
-  Drought development likely



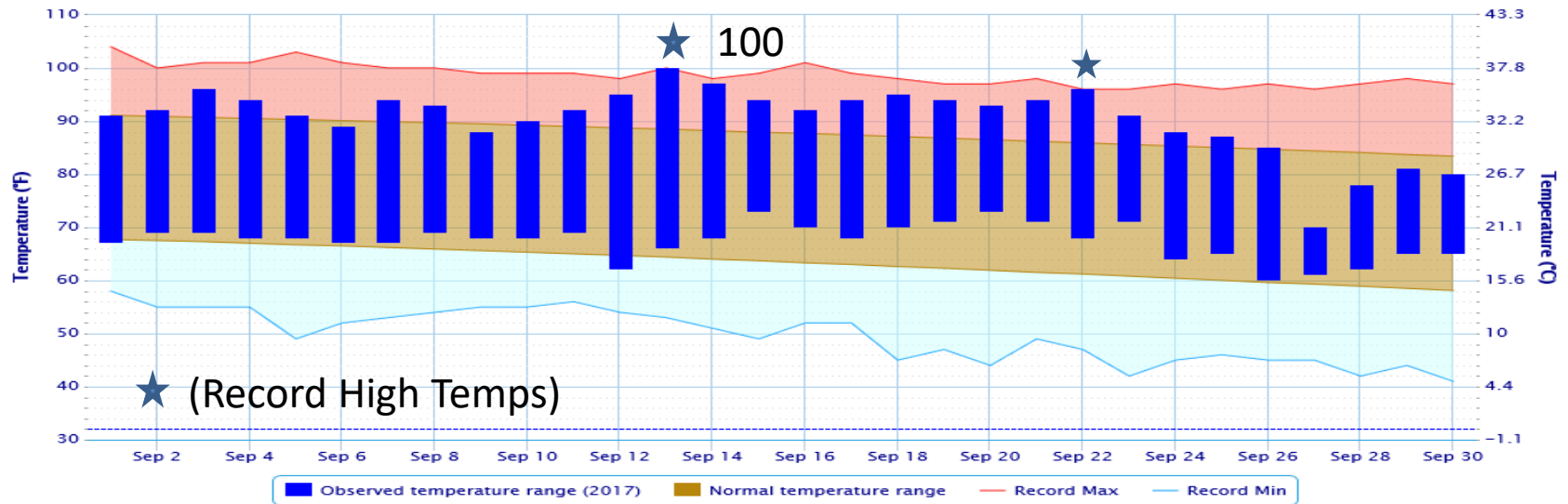
<http://go.usa.gov/3eZ73>



# Temperature and precipitation data for September 2017 in El Paso

Daily Temperature Data – EL PASO INTL AP, TX

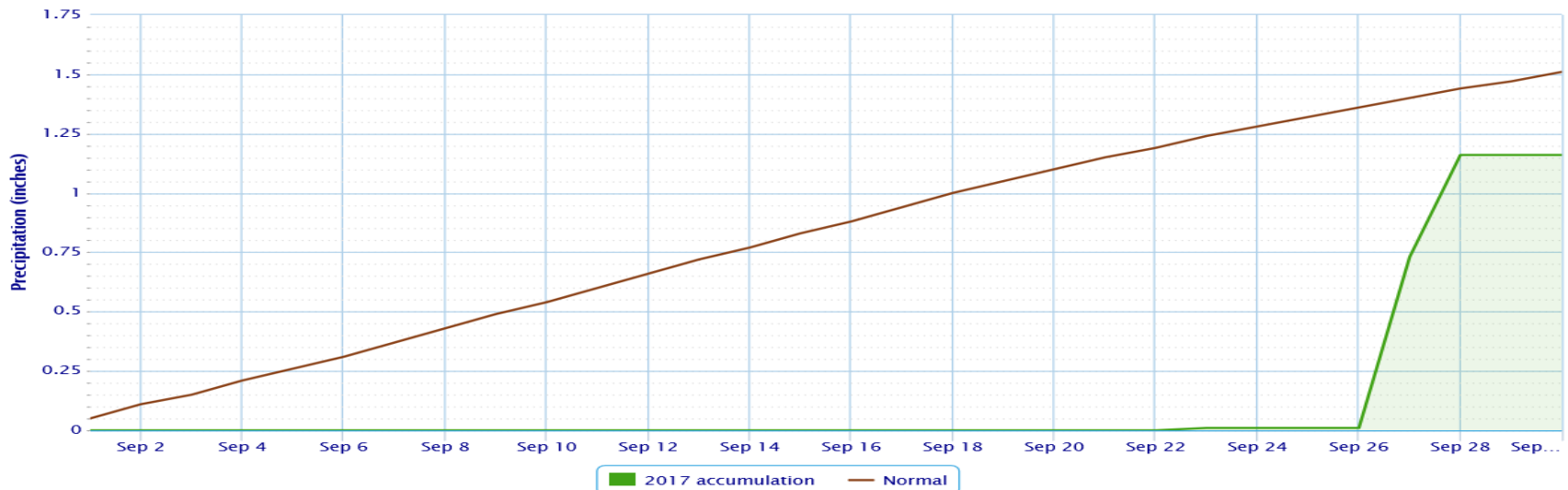
Period of Record – 1942–12–01 to 2017–09–30. Normals period: 1981–2010. Click and drag to zoom chart.



Powered by ACIS

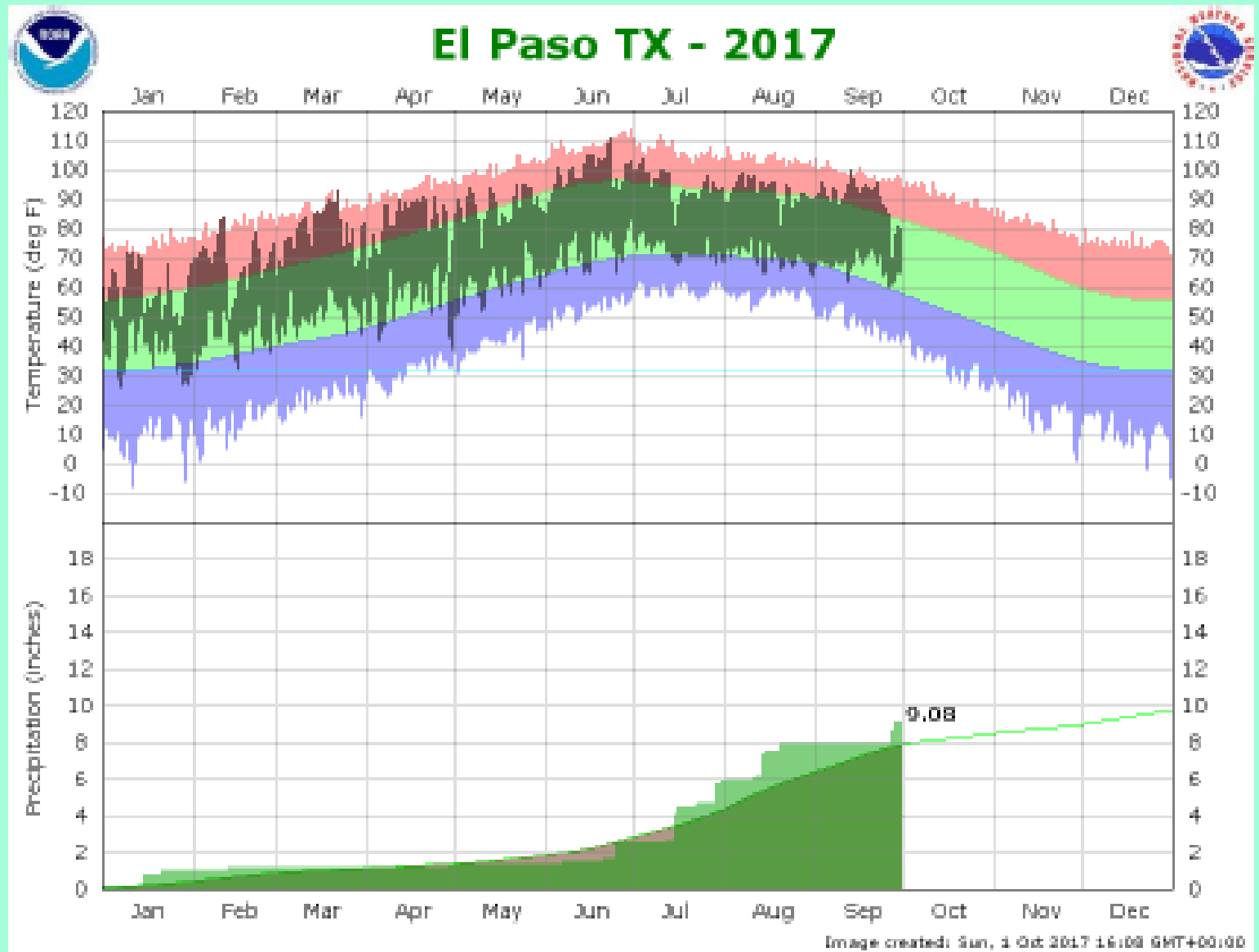
Accumulated Precipitation – EL PASO INTL AP, TX

Click and drag to zoom to a shorter time interval; green/black diamonds represent subsequent/missing values



Powered by ACIS

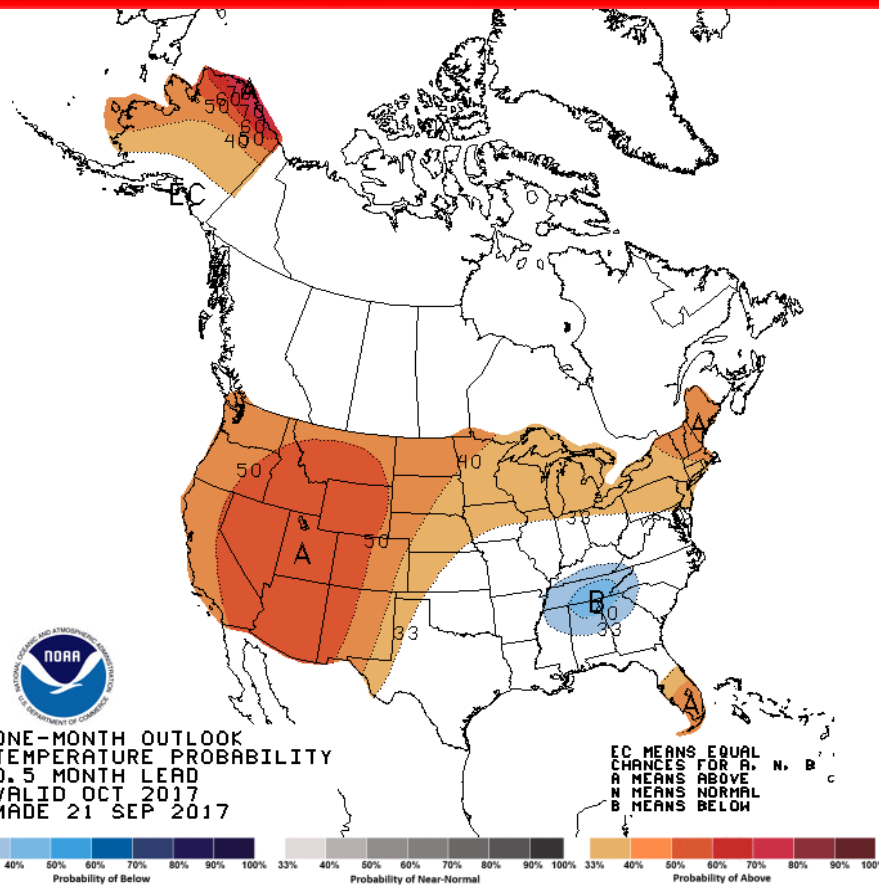
# 2017 year-to-date temperature and precipitation data El Paso



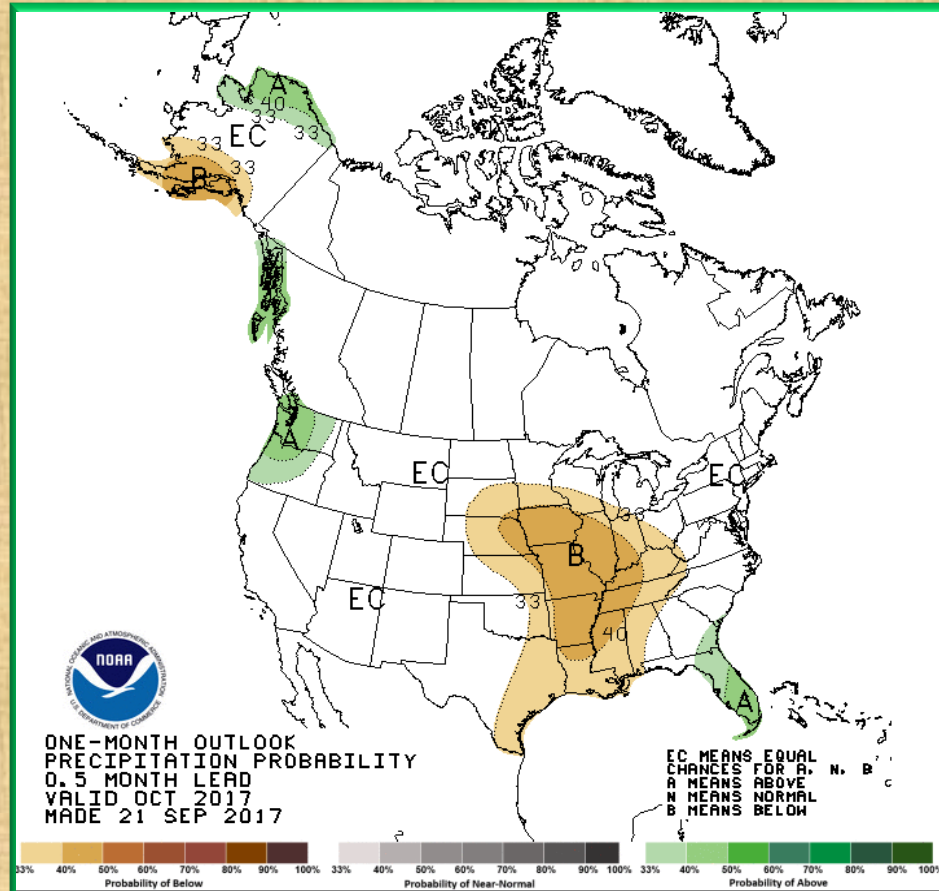


# Temperature and precipitation outlook for October 2017

## Temperature

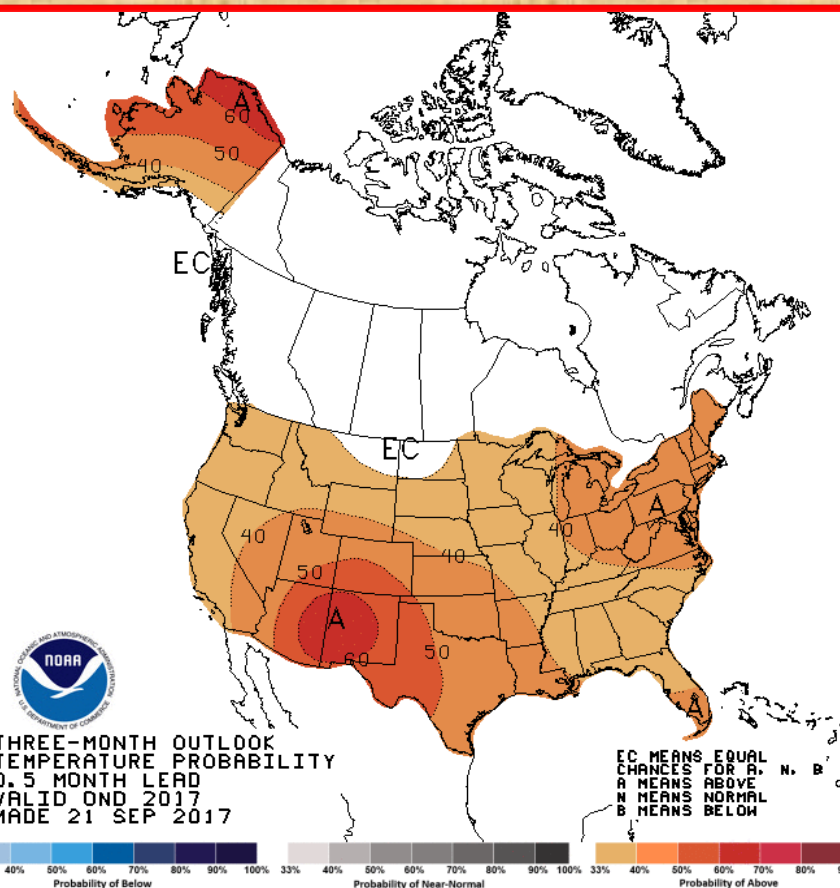


## Precipitation

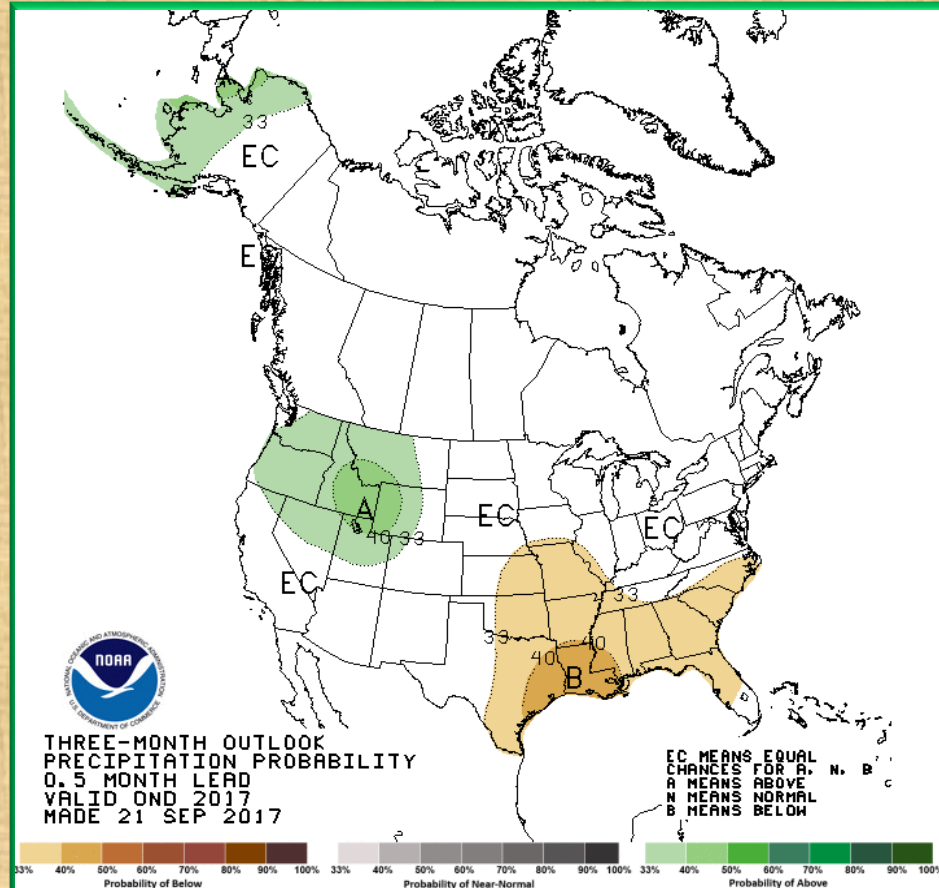


# Temperature and precipitation outlook For October-December 2017

## Temperature

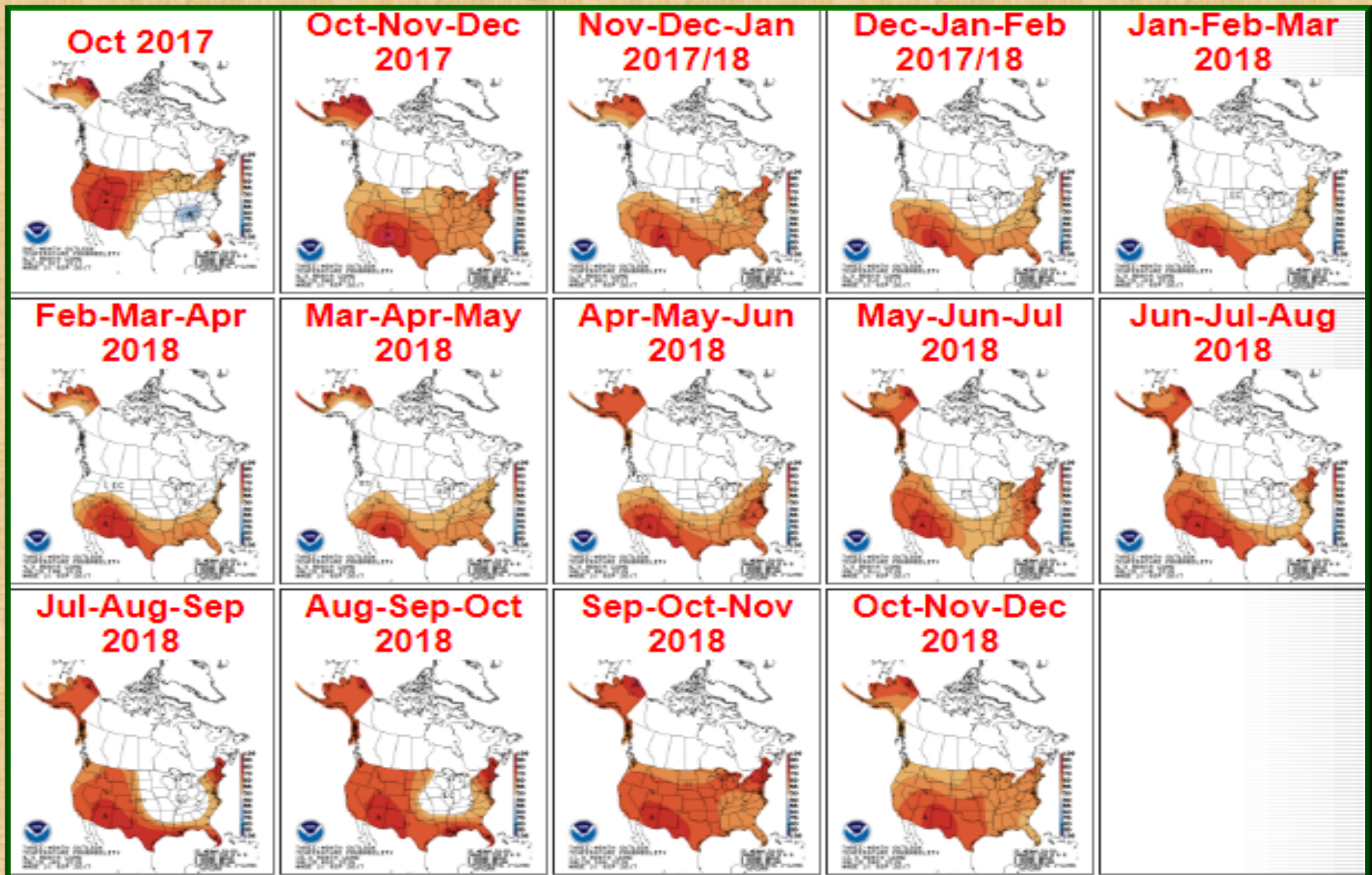


## Precipitation

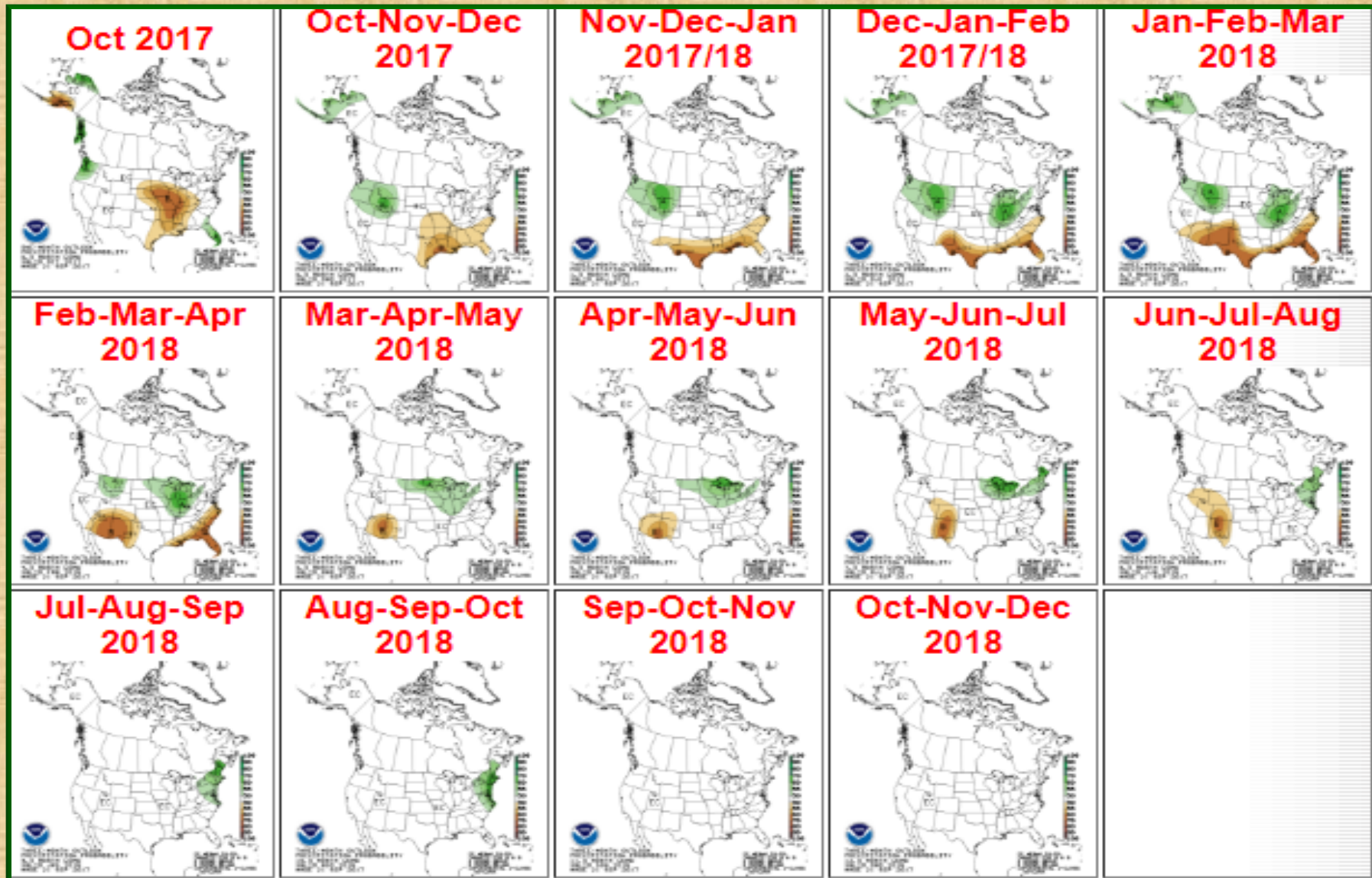




# Temperature Outlook Through December 2018

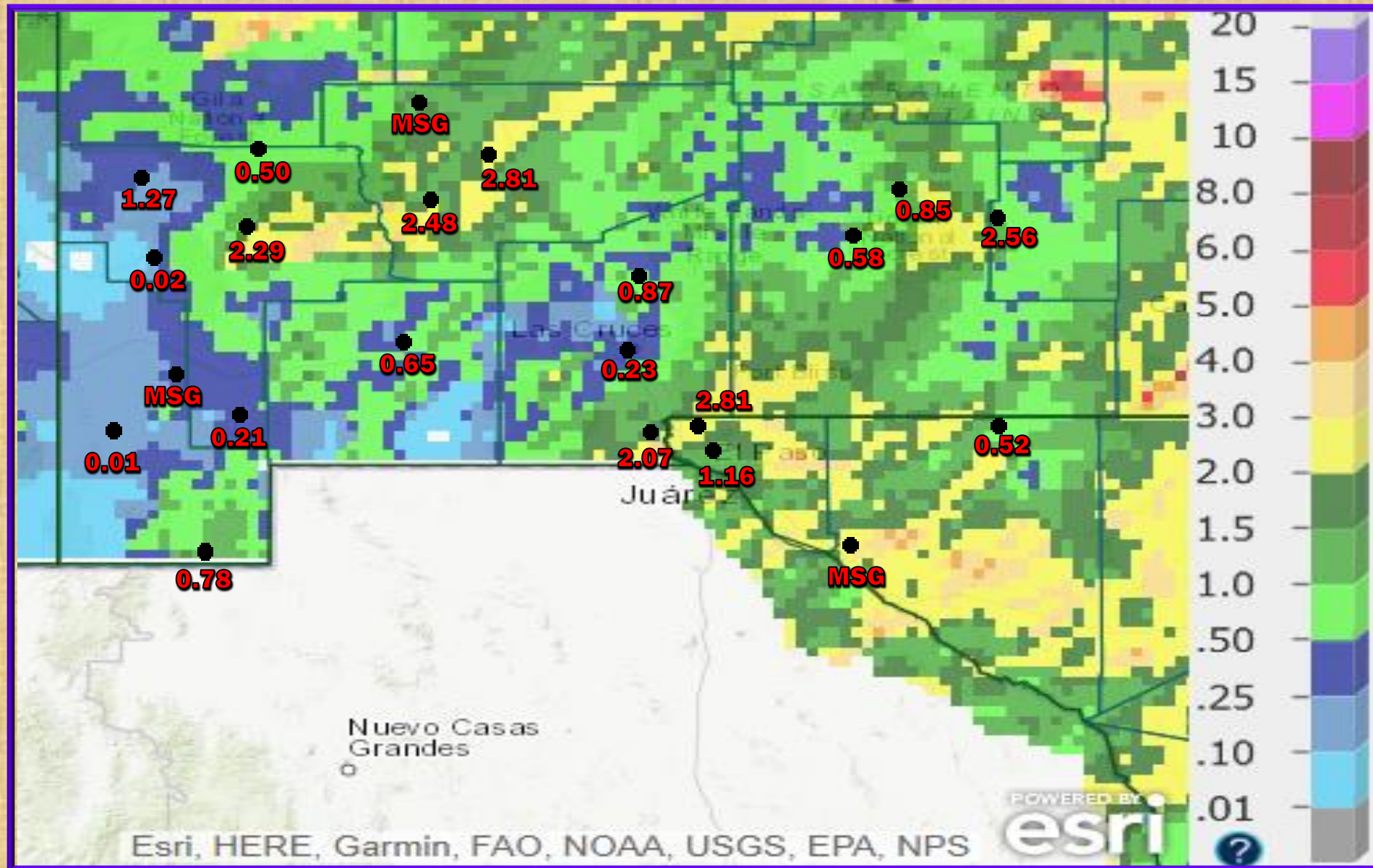


# Precipitation Outlook Through December 2018



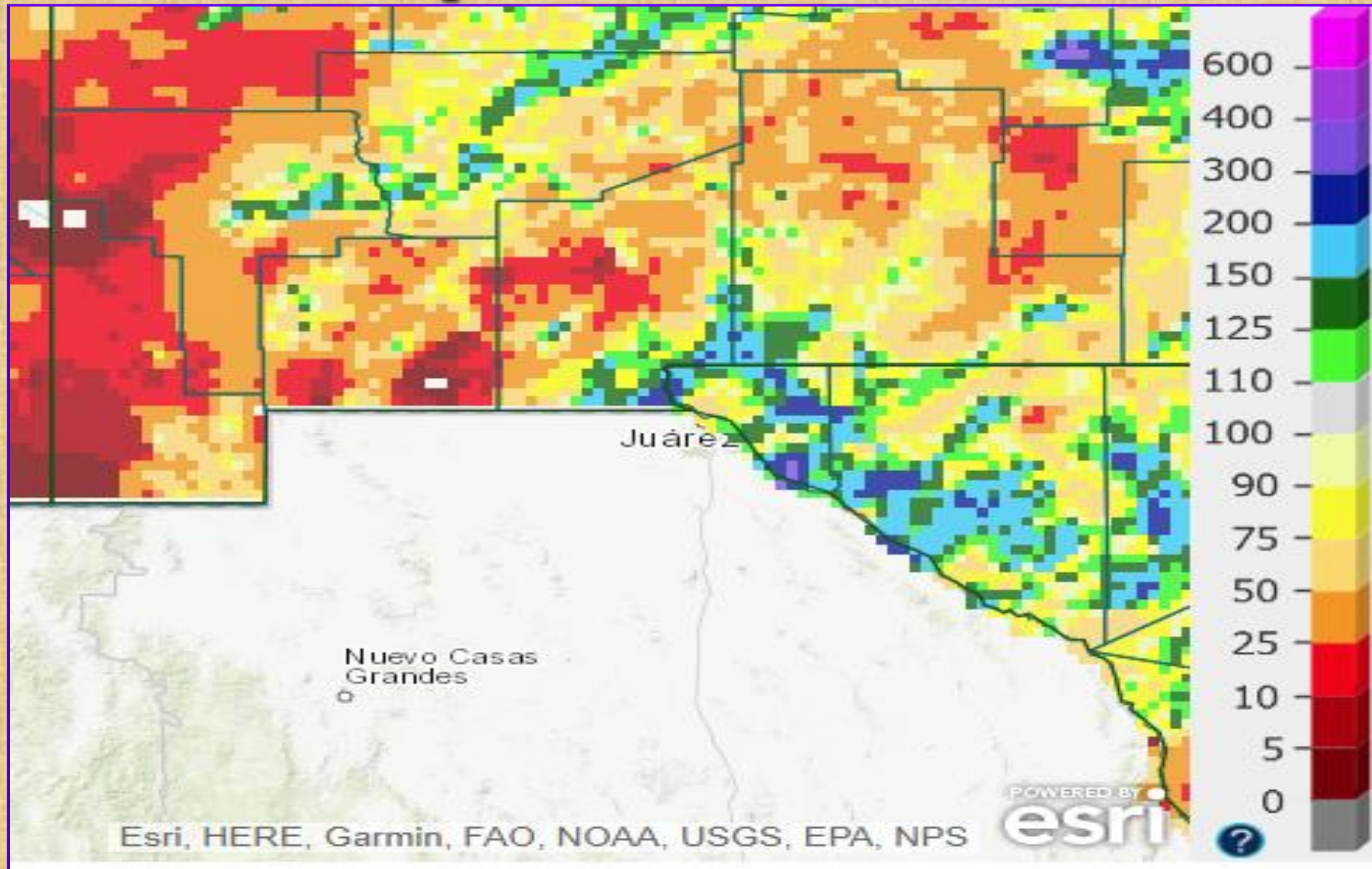


# September 2017 radar rainfall estimate with surface rainfall reports





# September 2017 radar rainfall estimate percent of normal



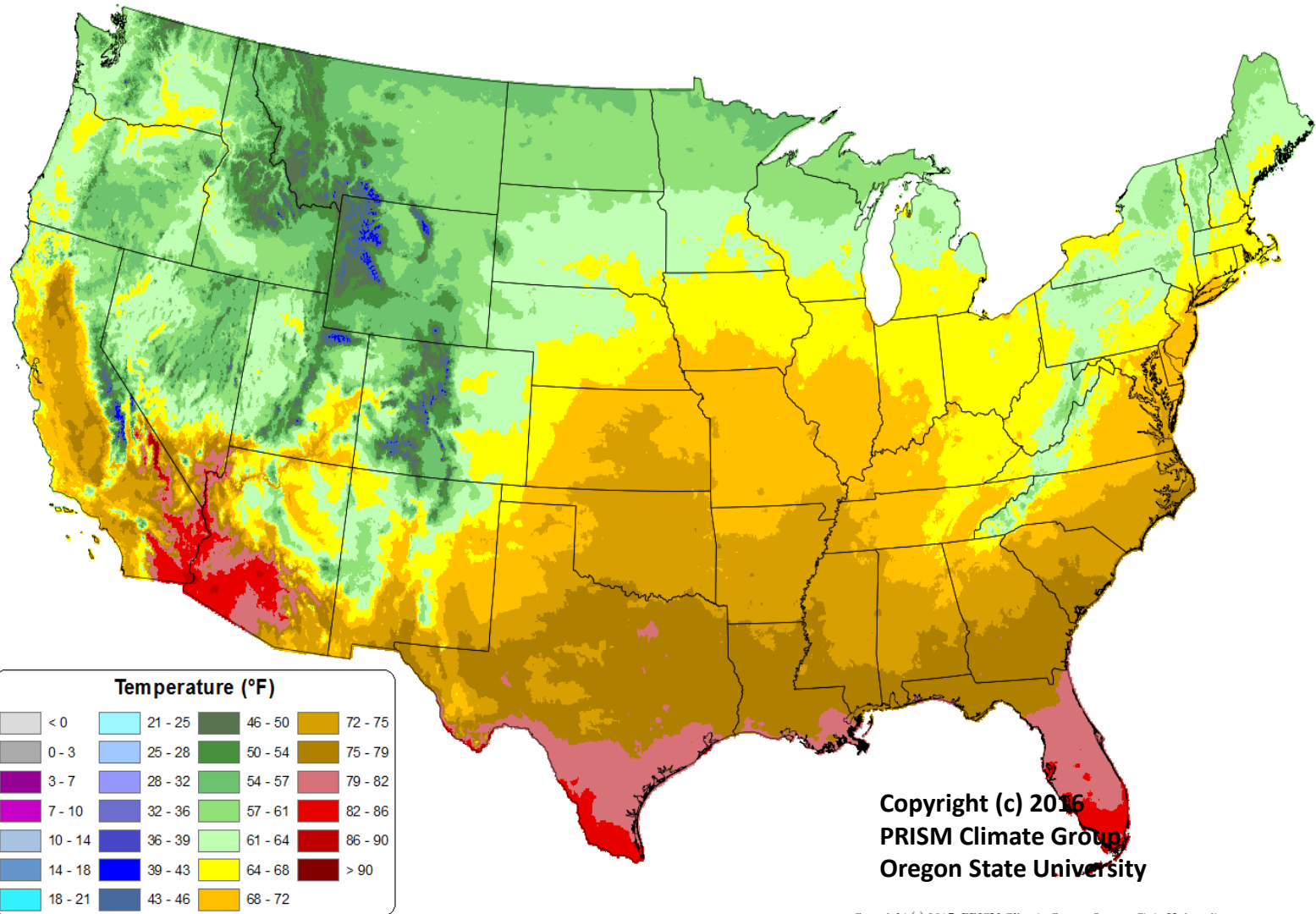


# Average Daily Mean Temperature for September 2017

Average Daily Mean Temperature: September 2017

Period ending 7 AM EST 30 Sep 2017

(Map created 02 Oct 2017)



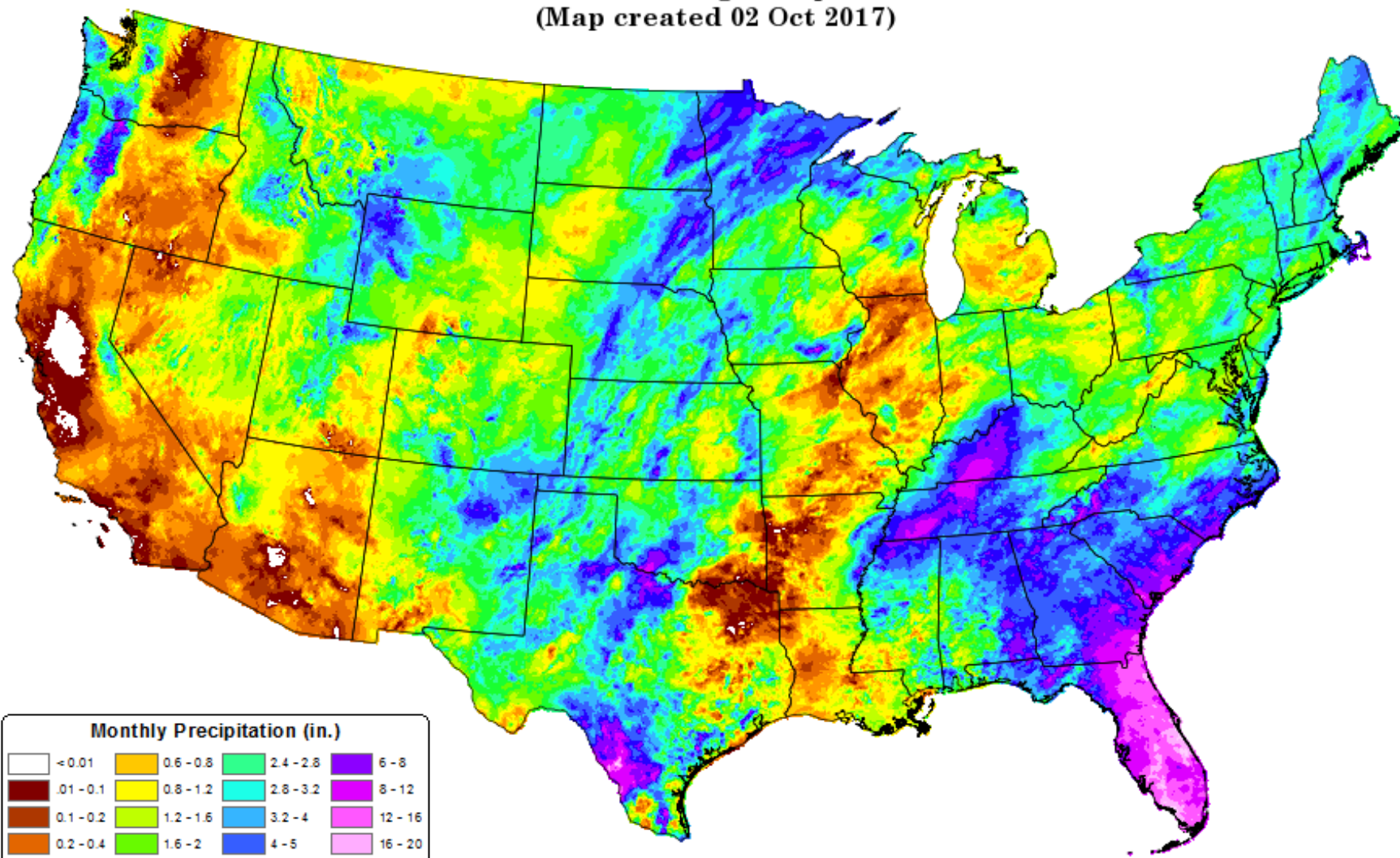
Copyright (c) 2016  
PRISM Climate Group  
Oregon State University

# Total Precipitation for September 2017

## Total Precipitation: September 2017

Period ending 30 Sep 2017

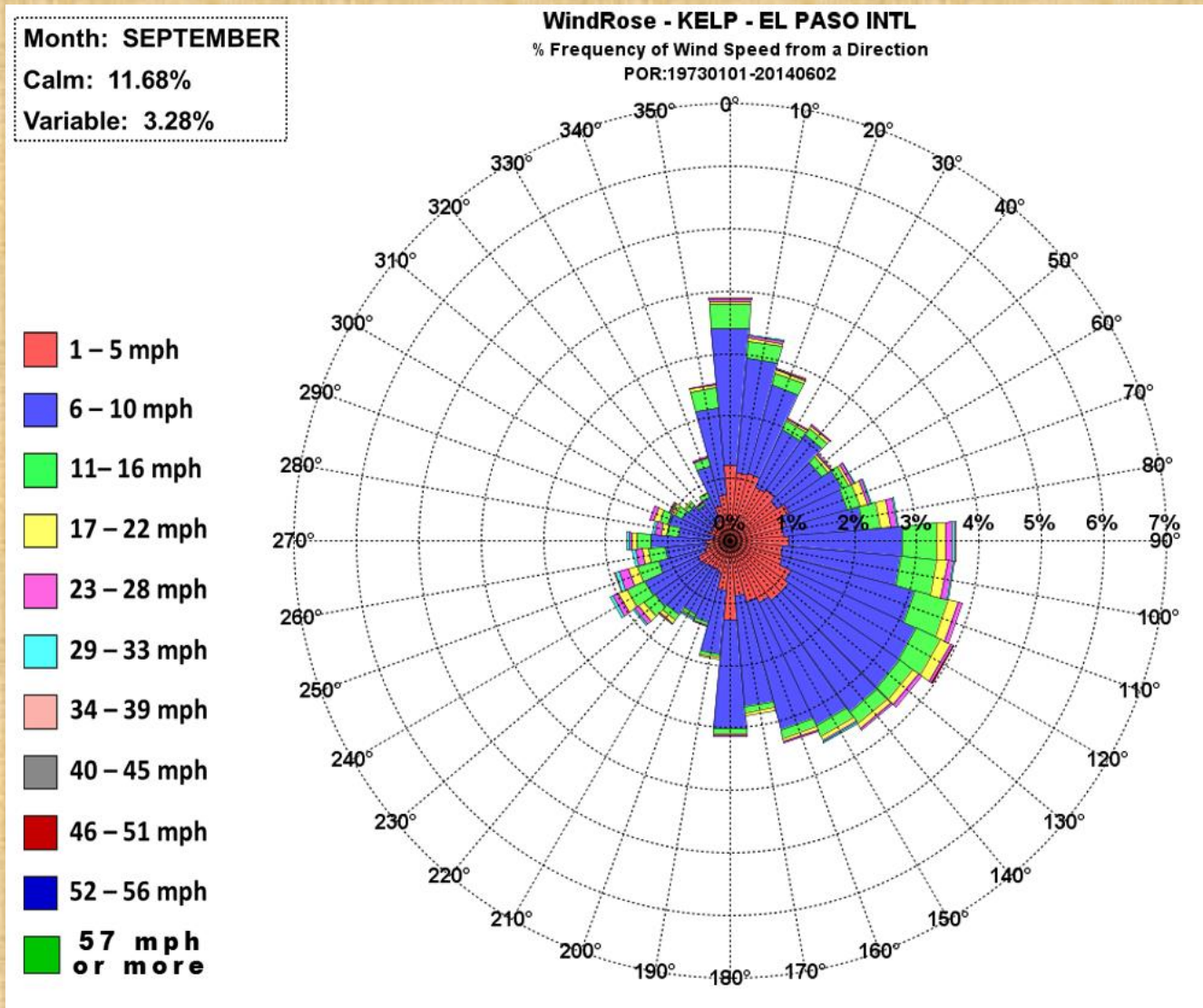
(Map created 02 Oct 2017)





# Special Features

<http://www.srh.noaa.gov/epz/?n=elpwindrosedata>



# Selected weather reports September 2017

Date/Time	Location (County)	Event
09/26/2017 710 PM	ELEPHANT BUTTE 1 NE-SIERRA	.50 INCH HAIL
09/26/2017 639 PM	KINGSTON-SIERRA	.50 INCH HAIL
09/28/2017 700 AM	SANTA TERESA 1 SW	3.47 INCHES HEAVY RAIN
09/28/2017 720 AM	EL PASO 9 NW-EL PASO	2.95 INCHES HEAVY RAIN
09/28/2017 648 AM	EL PASO 11 NE-EL PASO	2.88 INCHES HEAVY RAIN
09/28/2017 700 AM	CHAPARRAL-DONA ANA	1.96 INCHES HEAVY RAIN
09/28/2017 701 AM	LA UNION 1 NE-DONA ANA	1.50 INCHES HEAVY RAIN
09/28/2017 640 AM	HATCHITA 15 SW-HIDALGO	1.22 INCHES HEAVY RAIN
09/28/2017 655 AM	WSMR MAIN POST-DONA ANA	1.11 INCHES HEAVY RAIN
09/28/2017 505 AM	CANUTILLO 1 S-EL PASO	FLOODING AROUND DONIPHAN
09/30/2017 200 AM	SILVER CITY 1 NW-GRANT	FLOODING WITH TWO FATALITIES






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Photo Credit: John Fausett



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## Heavy Rain and Flash Flooding Possible Over Parts of the Eastern United States

Heavy rainfall is expected over portions of the eastern United States through Thursday. Flooding and flash flooding will be possible in some areas. Click the "Read More" link for excessive rainfall forecasts from the Weather Prediction Center. [Read More >](#)

### NWS El Paso

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#### Today

##### Wednesday

Warmer with a Few Afternoon Storms



Local forecast by "City, St" or ZIP code


[Location Help](#)

## Heavy rain expected across the Mid-Atlantic region and central Appalachians.


Heavy rainfall is possible over portions of the eastern United States today, with the highest risk across the Mid-Atlantic and central Appalachians. Click the "Read More" link for excessive rainfall forecasts from the Weather Prediction Center. Afternoon showers and thunderstorms are possible over portions of the Southwest and southern Rockies through Friday. [Read More >](#)

### Monthly Weather Digest

[Weather.gov > El Paso, TX > Monthly Weather Digest](#)

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Southern New Mexico and Far West Texas has a variety of weather from month to month. Conditions can range from extreme drought, to heavy flooding rains, from record breaking heat to bone chilling cold. Below you will find past weather highlights from the area that the NWS office in Santa Teresa NM covers. This area includes the following counties in New Mexico: Hudspeth, Grant, Luna, Sierra, Doña Ana and Otero and the following counties in Texas: El Paso and Hudspeth.

#### WEATHER DIGESTS AND BULLETINS

Weather Digest	Southwest Weather Bulletins
<a href="#">January</a>	2005 <a href="#">Spring</a> <a href="#">Fall</a>
<a href="#">February</a>	2006 <a href="#">Spring</a> <a href="#">Fall</a>
<a href="#">March</a>	2007 <a href="#">Spring</a> <a href="#">Fall</a>
<a href="#">April</a>	2008 <a href="#">Spring</a> <a href="#">Fall</a>
<a href="#">May</a>	2009 <a href="#">Spring</a> <a href="#">Fall</a>
<a href="#">June</a>	2010 <a href="#">Spring</a> <a href="#">Fall</a>
<a href="#">July</a>	2011 <a href="#">Spring</a> <a href="#">Fall</a>
<a href="#">August</a>	2012 <a href="#">Spring</a> <a href="#">Fall</a>
<a href="#">September</a>	2013 <a href="#">Spring</a> <a href="#">Fall</a>
<a href="#">October</a>	2014 <a href="#">Spring</a> <a href="#">Fall</a>
<a href="#">November</a>	
<a href="#">December</a>	

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**Just click on "Local Programs>Weather Digest", then choose which month's Digest to view. Also, though discontinued, don't forget to check out our back issues of Southwest Weather Bulletin.**





24 / 7 WATCHING THE SKIES OVER YOU !

